CONTROLLING PLUNGER DRIVES FOR FLUID INJECTIONS IN ANIMALS

Abstract of the Disclosure

A computer-controlled injector of the type having a motor which advances and retracts a plunger located within a syringe housing toward and away from a nozzle located in the front of the syringe to inject fluid into or out of an animal subject. Manual motion is induced by operating a manual motion control; the operator can manipulate the control to indicate the desired direction and velocity of motion. The manual motion control also has a locking mode in which manual motion of the plunger will continue once initiated without requiring the operator to continue manipulating the manual motion control. The injector performs injections in accordance with one of several pre-programmed protocols, and automatically tracks the fluid volume remaining. The injector compensates for plunger extenders found in some partially pre-filled syringes by applying a stored offset value to the computed plunger position.